

L 13019-65 EMT(n)/EWP(v)/EWA(d)/EWP(t)/EWP(b) ASD(d)/ASD(p)-3/ASD(m)-3/
AFTU(a)/AEOC(b) MDR/JD/JT/MLK
ACCESSION #: AT4046837 S/0000/64/000/000/0166/0171

AUTHORS: Prosvirin, V. I.; Zaytsev, A. I.; Mortikov, V. D.

TITLE: Effect of operating temperature on the properties of alloy EI-437

SOURCE: AN SSSR. Nauchnye sovet po problemam zhаропрочных сплавов.
Issledovaniya stalej i spalov (Studies on steels and alloys). Moscow, Izd-vo
Nauka, 1964, 166-171

TOPIC TAGS: gas turbine, high temperature alloy, heat resistant alloy, alloy,
mechanical property, alloy hardness, alloy strength, alloy aging / EI-437 alloy

ABSTRACT: The gas turbines used up to the present time do no produce any significant changes in the properties of heat resistant alloys during the working life of the engine as long as they are not operated at temperatures exceeding the aging (tempering) temperature of the alloy as established by standard heat treatment. However, due to the increased working life of some engines, the problem now arises of determining the long-term effect of the working temperature on the properties of heat resistant alloys used in the engine. The present paper describes the results of investigations of the effect of long-term heating at 550-700°C on the properties of alloy EI-437. An alloy was used which had been subjected to hardening at 1080°C for 8 hours and tempering at 700°C for 16 hours. Various samples with a diameter

J. 130b9-65

ACCESSION NR: AT4046837

of 12 mm were heated at 550, 600, 650 and 700°C for 3, 6, 12, 36, 72, 144, 300, 600 and 800 hours, after which the mechanical properties were determined at 20, 550, 600, 650 and 700°C. Stress-rupture strength was determined at 600°C (68 kg/mm²) and 700°C (42 kg/mm²). The impact toughness was determined on standard notched samples (10x10x55 mm) and rupture samples (6x70 mm) during 2-4 parallel tests. The results showed a significant drop in hardness at 550°C after 300 hours, while at 600°C the drop was less, and at 650 and 700°C there was no decrease in hardness. The impact toughness decreased with time at all aging temperatures, especially at 600°C; an increase in impact toughness was only observed after a relatively short time at 700°C. Under short-term tensile stress, the ultimate strength and yield point changed only slightly up to 300 hours of aging. After 600 hours, the nature of the variations changed, and the minimum ultimate strength was observed at the maximum yield point. The stress-rupture strength also decreased after 300 hours' aging at 550°C, the time to failure dropping to only 17 hours. The authors conclude that the EI-437 alloy does not have a stable structure after heat treatment (600-800 hours' aging at 550-700°C), resulting in changes in the mechanical properties. Orig. ext. has: 6 figures.

ASSOCIATION: none

SUBMITTED: 16Jun64

ENCL: 00

SUB CODE: MM

Card 2/2

NO REF Sov: 010

OTHER: 000

ACC NR: AP6024393

SOURCE CODE: UR/0020/66/169/002/0335/0338

AUTHOR: Braynina, E. M.; Mortikova, Ye. I.; Petrushkevich, L. A.; Freydlina, R. Kh.
(Corresponding member AN SSSR)

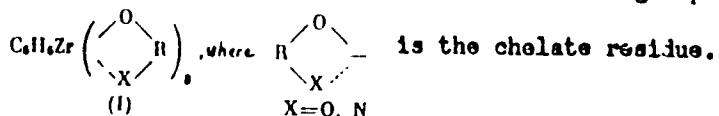
ORG: Institute of Organometallic Compounds, Academy of Sciences, SSSR (Institut elementoorganicheskikh soyedineniy Akademii nauk SSSR) 24
F

TITLE: New class of cyclopentadienyl zirconium compounds containing chelate groups

SOURCE: AN SSSR. Doklady, v. 169, no. 2, 335-338

TOPIC TAGS: organozirconium compound, chelate compound

ABSTRACT: The paper describes several variants for the synthesis of a series of representatives of a heretofore unknown class of organozirconium compounds containing one cyclopentadienyl (or methylcyclopentadienyl) and three chelate groups:



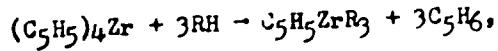
Apparently, the electron configuration of xenon has been successfully achieved for zirconium in these compounds for the first time. The most generally applicable method for synthesizing this class of compounds consists in reacting tetracyclopentadienyl-

Card 1/2

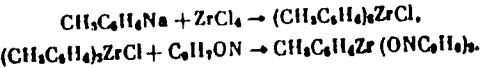
UDC: 247.255.31

1457 61
ACC NR: AP6024393

zirconium with chelate-forming compounds such as 8-hydroxyquinoline, acetylacetone, benzoylacetone and dibenzoylacetone. The reaction takes place rapidly under mild conditions and gives good yields:



where R = C₉H₆ON; C₅H₇O₂; C₁₀H₉O₂; C₁₅H₁₁O₂. Another synthesized compound was tris(8-hydroxyquinolate)methylcyclopentadienylzirconium:



The compounds were monomeric, fusible, and stable toward hydrogen. Their IR spectra were analyzed.

SUB CODE: 07/ SUBM DATE: 11Dec65/ ORIG REF: 004/ OTH REF: 001

Card 2/2 ULR

MORTIKOV, Ye.S.; ROZENGART, M.I.

Composition of an equilibrium mixture of n-heptenes at 450°.
Izv. AN SSSR. Ser. khim. no.6:1016-1021 '65.

(MIRA 18:6)

1. Institut organicheskoy khimii imeni Zelinskogo AN SSSR.

ROZENGART, M.I.; MORTIKOV, Ye.S.; KAZANSKIY, B.A., akademik

Step-polymerization of n-heptenes on an alumina-chromia-zinc oxide catalyst. Dokl. AN SSSR 158 no.4:911-914 G 1964.

1. Institut organicheskoy khimii AN SSSR.

4047

Mortimer J. Lime Milk Plant on the Building Yard of the Joseph Stalin
Palace of Culture and Science in Warsaw.
"Wytwarzanie mleka wapiennego na bazie produkcyjnej budowy Pałacu
Kultury i Nauki im. J. Stalina w Warszawie". Przegląd Budowlany, No. 8,
1954, pp. 243-245, 4 figs.

656.917.918 : 725.83

HT

The old methods of slackening lime result in considerable waste, necessitate prolonged ripening of lime paste in bins, require special transportation equipment, and make accurate batching impossible. The lime slackening process is based in plants on methods which give lime milk as the final product. The advantages of lime milk plants are: rapidity of slackening, which takes only 12 hours; reduction in waste of materials to 1%, high output with little labour, accurate batching of mortars, non-dependence on weather, good working conditions, high quality coupled with low costs, and the small area of the plant, which is only 850 m².

MARTIMER, Janusz, mgr inz.

Prefabricated building in the Czechoslovak Socialist Republic. Przegl budowl i bud mieszk 33 no.6:380-382 Je'61

USSR/Farm Animals - Honey Bee.

Q-5

Abs Jour : Ref Zhur - Biol., No 7, 1958, 31033

Author : Bogolyubenskiy S.G., Martis A.A.

Inst : -
Title : Temporary Isolation of Bees in Hives as a Protection
from Poisoning.
(Vremennaya izolyatsiya pchel v ul'yakh dlya zashchity
ot otravleniy).

Orig Pub : Pchelovodstvo, 1957, No 8, 42-46

Abstract : The experiments carried out at the Voronezh Apicultural
Institute showed that the influx of air only through the
bee entrance and penetration of light through it causes
the bees to gather around the bee entrance, which leads
to their being "steamed". It is imperative to have the
air draft device on top of the hive and in hot weather,
to ventilate the hive vigorously under its roof. It is
also necessary to give water to the bees plentifully
and without interruption.

Card 1/1

Distr: 4E3d

✓ Improved ¹trotyl preparation. Tadeusz Urbaniski, Juliusz Hackel, Stanislaw Mostka, Kazimiera Szyc-Lewandowska, Tadeusz Siebodziński, and Wiesław Witkiewicz (Katedra Technol. Organicznej II Politech., Warsaw). Przemysł Chem. 35, 561-4 (1959).—Nitration of 1 mole toluene with a mixt. of 1.3 moles HNO₃ (d. 1.62) and 1.75 moles Ac₂O (10°, 2 hrs.) gave the mononitration product (I), not (or only slightly) contaminated with the meta isomer. I was further nitrated to di- and trinitrotoluene by usual methods. The purity of the raw trinitrotoluene so obtained was claimed to be sufficiently high to be used as an explosive without addnl. purification.

✓
J.P.W(BW/JW)

/ JAJ(NB)

/

BELIKOV, P.S., doktor biologicheskikh nauk, prof.; MORTORINA, M.V. kand.
biologicheskikh nauk.; KURKOVA, Ye.B., laborant.

Brief activation of photosynthesis as the manifestation of irritability
in plants [with summary in English]. Izv. TSKHA no.1:47-60 '62.
(MIRA 15:6)

(Photosynthesis)

HERLING, C. (Bucuresti); HORISTE, Constantin; PREJDECU, Stefan (Slatina);
Pirsar, Liviu (Bucuresti); RADU, C., prof. SCULTEIU, I.; IOHANESCU,
Florica H. (Bucuresti); RADU, Al. (Iasi); RADU, Gheorghe (Bucuresti);
SANDEULACHE, C., prof. (Neamt, Iasi); MATEIU, V.;
SCHEFFEL, Gabriela (Cimpulung); THEODORESCU, I. prof. (Ialati);
SIGLOVAN, I. (Petroșani); ACHI, Ionitu (Cluj); GRECU, Estimie
(Bucuresti); PAPU, N., prof. (Râmnicu Vilcea); MIHOCHEIU, Adrian
(Bucuresti); DUMITREASA, E., prof. (Cluj); CHIRIACU, Cornelia
(Grajdova); HORATIU, V. (Bucuresti); PANEFIU, Grigore, prof.
(Cimpina); CFREA, M. (Bucuresti); POPESCU, Teodora (Bucuresti);
Gerb, Ion (Tugov)

Proposed problems. Gaz mat B 16 no.4:172-177 Ap '65.

MORTUN, Emil

Propounded problems; 5170. Gaz mat B 13 no.3:169 Mr '62.

BAZACOV, Gh.; SIMIONESCU, G.D.; MORTUN, Emil, (Pitesti); HADIRCA, I.,
prof. (Breaza); IONESCU-TIU, C.; SZILAGYI, Karoly (Carei)

Resolved problems. Gaz mat B 14 no.8:469-478 Ag '63.

BAZACOV, Gh. (Tr. Severin); FETRESCU, P. Anastasie (Craiova); GRIGORE, I. A.
(Ploiesti); TUDORESCU, I. (Galati); POPESCU, Gh. (Lugoj); STANESCU,
Ilie (Sibiu); MORTIN, E. (Pitesti); IVANESCU, Cezar (Tirgoviste);
APOLOZAN, Ion (Medgidia); VASILESCU, Constantin (Ploiesti); IONESCU-
TIU, G.; GAVRILA, Gh. (Bucuresti); SAVU, Constanta (Bucuresti); STA-
TESCU, Emilian (Busteni)

Questions for examinations in Mathematics. Gaz mat B 15 no.4:167-171
Ap '64.

MORTYAKOVA, R.F., meditsinskaya sestra (Kolomna)

Medical first aid in eye injuries. Med.sestra 21 no.9:45-48 S '62.
(MIRA 15:9)
(FIRST AID IN ILLNESS AND INJURY) (EYE--WOUNDS AND INJURIES)

MORTYNNENKO, V.I.

CIRCUITS

"Lock-In of a Self Excited Oscillator by Means of an Amplitude-Modulated External Signal", by D.P. Mortynenko and R.V. Khokhlov, Radioteknika i Elektronika, No 8, August 1957, pp 1,001 - 1,011.

It is shown in this article that the synchronization of a self oscillator by means of a amplitude-modulated voltage, under detuning deviations that do not exceed the lock-in band, causes the appearance of phase modulation in the output signal, and correspondingly a distortion of a waveform of the envelope.

If the detuning exceeds the lock-in band, and if the modulation frequency is less or slightly greater than the lock-in band, one observes synchronization of the beats at the modulation frequency.

Card 1/1

- 11 -

RUMANIA / Farm Animals. Dogs.

U-9

Abs Jour : Ref Zhur - Biologiya, No 16, 1957, 72143

Author : Moru, M., Mochnacs, M.
Title : The Poodle - a Good Sheepdog

Orig Pub : Probl. Zootehn., 1956, No 10, 51-56

Abstract : No abstract.

Card : 1/1

- 48 -

Mone, M

4

V.V. (121)
Source (in copy); Given Name

Country: Romania

American Source: Uninformed

Affiliation: Agronomic Institute (Institutul agronomic), Timisoara.

Source: Bucharest, ~~Institutul Inginerilor de Veterinari~~, No. 3, Mar. 1961,
pp. 35-39.

Title: "A Few Problems Concerning Herino-Breeding in the Banat Field."

Co-authors:

~~Engines, E., Engineer, Agronomic Institute, Timisoara.~~

~~Engines, E., Engineer, Agronomic Institute, Timisoara.~~

MORUCHKOV, Semen Antonovich; IVANOV, Vladimir Petrovich; DMITRIYEVA,
S.I., red.; YUZBASHEV, V.G., red.; RAKITIN, I.T., tekhn. red.

[Through the work of millions] Trudom millionov. Moskva, Izd-
vo "Znanie," 1962. 30 p. (Novoe v zhizni, nauke, tekhnike.
I Seriya: Iстория, no.1) (MIRA 16:1)
(Russia--Economic conditions)

MORUGIN, L.A., kandidat tekhnicheskikh nauk.

Formation of transient characteristics in amplifiers with negative feedback. Trudy GPI 12 no.2:89-93 '56. (MIRA 10:5)
(Amplifiers, Electron-tube)

PHASE I BOOK EXPLOITATION

1240

Glebovich, G.V., and Morugin, L.A.

Formirovaniye impul'sov nanosekundnoy длительности (Generating Millimicro-second Pulses) Moscow, Izd-vo "Sovetskoye radio," 1958. 237 p.

Ed.: Arenberg, N. Ya.; Tech. Ed.: Sveshnikov, A.A.

PURPOSE: The book is intended for engineering personnel of the radio industry, for physicists and for students of vuzes.

COVERAGE: The authors describe problems in generating and forming video pulses of millimicrosecond duration. They describe basic methods of forming pulses by means of feedback circuits and transmission lines. They also discuss problems in transforming, delaying, and oscillographic recording of short pulses and analyze the physical processes in circuits used in millimicrosecond pulse technique. Chapters 1,2,3 and sections 2,3,4 of Chapter 5 were written by L.A. Morugin. Chapters 4,6, and

Card 1/4

Generating Millimicrosecond Pulses

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section 1 of Chapter 5 were written by G.V. Glebovich. The authors thank Professor Ya. S. Itskhoki, Doctor of Technical Sciences, and Yu. N. Prozorovskiy, Candidate of Technical Sciences, for reviewing the manuscript. There are 157 references of which 81 are Soviet (including 2 translations), 72 English, and 4 German.

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Generating Millimicrosecond Pulses

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Bibliography

Supplementary bibliography

AVAILABLE: Library of Congress

JP/lsb
2-18-59

9,5230
9,3275

S/109/60/005/012/002/055
E192/E482

AUTHOR: Morugin, L.A.

TITLE: Integration of Pulse Signals in Systems With Delayed
Feedback

PERIODICAL: Radiotekhnika i elektronika, 1960, Vol.5, No.12,
pp.1885-1888

TEXT: A system described in Ref.1 with positive feedback delayed
for a time T is considered (Fig.1), consisting of 1 summation
circuit, 2 filter, 3 attenuator with gain factor $m < 1$
(Abstractor's note: in the article m is incorrectly termed the
attenuation factor) and 4 delay line. All elements are linear
and it is assumed that the frequency characteristics of the system
are determined by the filter 2. A signal accumulation factor g
is defined as the ratio of maximum signal amplitude at the output
to the input signal amplitude

$$g = \frac{\bar{U}_N(t)}{\bar{U}_0(t)} = \sum_{n=1}^N m^{n-1} = \frac{1-m^N}{1-m}. \quad (3)$$

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Integration of Pulse ...

The assumption $m < 1$ implies

$$g \rightarrow g_m = \frac{1}{1 - m} \quad (4)$$

i.e. the gain for an infinite number of periods T approaches the gain for an amplifier using the same positive feedback without delay. When the filter constitutes a simple RC-integrating network, the analysis shows that

$$g \approx \frac{1}{1 - m} \left[1 - e^{-(1-m) \frac{t_u}{RC}} \right] \quad (11)$$

where t_u is the pulse duration. The first term outside the square brackets is the gain for an infinite number of periods, the second term takes into account the effects of limited passband. Eq.(11) is shown graphically for certain values of $m > 0.9$ in Fig.2. When a number Q of such accumulators are placed in series the system passband is reduced by a factor of \sqrt{Q} but the

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Integration of Pulse ...

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signal accumulation factor is substantially increased, which is useful where the feedback factor m cannot be taken close to unity or where the passband of the delay line is relatively small. There are 2 figures, 1 table and 2 references: 1 Soviet and 1 non-Soviet.

SUBMITTED: March 28, 1960

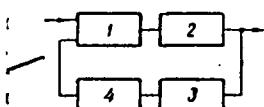


Fig. 1.

Рис. 1. Блок-схема уст-
ройства с задержанной
обратной связью

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Integration of Pulse ...

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Fig. 2.

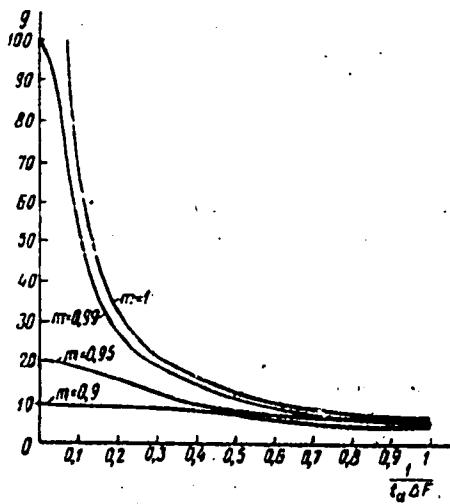


Рис. 2. Зависимость коэффициента накопления сигнала от полосы пропускания устройства с задержкой обратной связью при различных значениях фактора обратной связи

Card 4/4

L37

PHASE I BOOK EXPLOITATION SOV/5904

Morugin, L. A.

Impul'snyye ustroystva s zapazdyvayushchey obratnoy svyaz'yu
(Delay Feedback Pulse Devices) Moscow, Izd-vo "Sovetskoye radio",
1961. 207 p. 10,000 copies printed.

Ed.: Yu. I. Sukhanov; Tech. Ed.: B. V. Smurov.

PURPOSE: This book is intended for radio engineers and radio engineering students in schools of higher education.

COVERAGE: The book analyzes the properties of delay feedback systems and investigates possible applications of feedback circuits to the shaping and conversion of pulses as well as to pulse generation, amplification, and detection against background noise. The basic relationships governing the processes which occur in delay feedback systems are established, and transient and spectral characteristics are given. Signal storage processes are analyzed, and devices utilizing delay feedback in pulse handling are described.

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Delay Feedback Pulse Devices**SOV/5904**

Soviet and non-Soviet publications were used in compiling the book. Yu. S. Lezin wrote the sections entitled "Passage of Noise Through a Comb Filter With Delay Feedback" and "Operating Efficiency of Comb Filters With Delay Feedback" in Ch. V. The author thanks Ya. S. Itsakhoki, Doctor of Technical Sciences, Professor, and S. N. Krize, Doctor of Technical Sciences, Professor, for their help. There are 96 references: 72 Soviet and 24 English.

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2. Writing and solving an integral equation	11
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9.7140

39713
S/142/62/005/002/C16/019
E192/E382

AUTHOR: Morugin, L.A.

TITLE: Storage of pulse signals in a system of a limited bandwidth with a small number of pulses

PERIODICAL: Izvestiya vysshikh uchebnykh zavedeniy,
Radiotekhnika, v. 5, no. 2, 1962, 270 - 272

TEXT: The system considered is shown in Fig. 1, where 1 is an adding circuit, 2 a filter, 3 an attenuator having an attenuation $m > 1$ (m is also the feedback factor) and 4 is a delay line. When a train of pulses is applied to this system, storage of pulses takes place provided that the repetition period of the pulses is equal to the delay time of the system. Normally, the system is analyzed under the assumption that its bandwidth is very wide (W.D. White, A.E. Ruvin - PIRE National Conv. Record, 1957, P2, March, 136), or that the number of pulses is sufficiently large. However, in actual conditions neither of the assumptions is valid. Consequently, the case of $N < N_A$ is considered, where N_A

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Storage of pulse signals

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is the number of active pulses, i.e. the number of pulses for which the output pulse having index N_A reaches 0.9 maximum value obtainable for $N = \infty$. The analysis of the system is based on deriving an expression U_N for the output pulse having an index N for the case when the filter is in the form of an integrating RC network. The resulting expression is used to determine a formula for the envelope of the pulse amplitudes at the output of the storage system. Investigation of the formulae shows that the rate of increase in the amplitude of the pulses at the output of the storage device increases with decreasing relative bandwidth λ of the filter. It is found that at small values of λ the rate of rise in the amplitude is almost independent of m , provided this lies between 0.5 and 1.0. At large λ , the effect of m on the rate of rise is more significant. There are 2 figures.

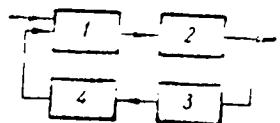
Card 2/3

Storage of signals S/142/62/005/002/016/019
E192/E382

ASSOCIATION: NIRFI pri Gor'kovskom gos. universitete
im. N.I. Lobachevskogo (NIRFI of Gor'kiy
State University im. N.I. Lobachevskiy)

SUBMITTED: June 12, 1961 (initially)
September 18, 1961 (after revision)

Fig. 1:



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S/109/62/007/003/004/029
D234/D302

AUTHOR: Morugin, L.A.

TITLE: Storage of pulse signals in devices with delayed feed-back with elimination of the time of effective delay

PERIODICAL: Radiotekhnika i elektronika, v. 7, no. 3, 1962,
391 - 396

TEXT: The effective delay time is defined as the magnitude of time displacement of the maxima of the pulses passing through the filter. It is found to be equal to the time constant of the filter when the sequence number of the pulse in question is sufficiently large. Graphical study shows that elimination of effective delay time must give considerable gain in the value of storage coefficient of the signal. The gain is then defined as the ratio \bar{U}_N^*/\bar{U}_N , \bar{U}_N^* being the maximum value of the N-th pulse at the output of a device realizing the storage of pulses with elimination of effective delay time and \bar{U}_N the maximum value of the N-th pulse at the out-

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S/109/62/007/003/004/029

Storage of pulse signals in devices ... D234/D302

put of a device realizing ordinary summation of pulses. Graphs of the gain are given for different values of the feedback coefficient m and relative pass band width ω . It is concluded that the gain increases sharply when m decreases, and increases when ω decreases; therefore the elimination is most efficient in devices with a narrow pass band. The efficiency of a real storage device with delay time elimination is compared with that of an ideal storage device, whose pass band is unlimited. Graphical calculations are stated to show that the elimination of the delay time improves the form of the pulses by making them shorter. There are 4 figures and 4 Soviet-bloc references.

SUBMITTED: April 17, 1961

Card 2/2

MORUGIN, Lev Alekseyevich; GLEBOVICH, Gleb Viktorovich; ARENBERG,
N.Ya., red.

[Nanosecond pulse techniques] Nanosekundnaya impul'snaya
tekhnika. Moskva, "Sovetskoe radio," 1964. 623 p.
(MIRA 17:8)

ACCESSION NR: AP4038636

S/0109/64/009/005/0784/0790

AUTHOR: Morugin, L. A.

TITLE: Calculating the rise time of the output pulses of nanosecond-range
relaxation oscillators

SOURCE: Radiotekhnika i elektronika, v. 9, no. 5, 1964, 784-790

TOPIC TAGS: oscillator, relaxation oscillator, nanosecond relaxation oscillator,
relaxation pulse rise time

ABSTRACT: The formation of a pulse front is regarded as a combination of
oscillator switching and output-capacitor charging processes. The relaxation
oscillator is treated as a quadripole with a positive feedback. Curves are plotted
which show the reduction of the switching time due to the positive feedback; the
reduction is substantial in the microsecond range and negligible in the nanosecond
range. Use of the pulse-rise time formulas is illustrated by three examples:

Caro 1/2

ACCESSION NR: AP4038636

(1) a secondary-emission 6V1P tube relaxation oscillator; (2) a two 6Zh9P multi-vibrator; (3) a multivibrator with two 6Zh9P and one 6V1P tubes. Orig. art. has: 4 figures and 38 formulas.

ASSOCIATION: none

SUBMITTED: 13Apr63

DATE ACQ: 05Jun64

ENCL: 00

SUB CODE: EC

NO REF SOV: 002

OTHER: 005

Card 2/2

L 19866-65 EWT(1)/EWA(h) Pbh RAEN(a)/ESD(t) MLK

ACCESSION NR AM5001445 BOOK EXPLOITATION

S/

B

Morugin, Lev Alekseyevich; Glevovich, Gleb Viktorovich

Millimicrosecond pulse engineering (Nanosekundnaya impul'snaya tekhnika),
Moscow, Izd-vo "Sovet'skoye radio", 1964, 623 p. illus., biblio. 13,200
copies printed.

TOPIC TAGS: nanosecond pulse, nanosecond pulse amplifier, nanosecond pulse
generator

PURPOSE AND COVERAGE: This book is devoted to the basic problems of nanosecond pulse technology: transient processes in distributed systems, generation and forming of pulses, their conversion, amplification, and registration. The principles of the theory, methods, and fundamentals of nanosecond pulse technology are examined, the physical processes are discussed, and calculations of specific circuits and elements are cited. Technical characteristics of technical equipment are given. The book is intended for engineers working in radio electronics and concerned with the development, design, and use of pulse equipment, teachers and students of higher education institutions.

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ACCESSION NR: AR5008937

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621.372.061

8

B

SOURCE: Ref. zh. Radiotekhnika i elektronika. Svodnyy tom, Abs. 2A108

AUTHOR: Morugin, L. A.

TITLE: Transients in distributed systems with discrete inhomogeneities

CITED SOURCE: Tr. po radiotekhn., elektrotekhn. i energ. Gor'kovsk.
politekhn. in-t, v. 20, no. 2, 1964, 17-29

TOPIC TAGS: transient, distributed system

TRANSLATION: In transmitting nanosecond pulses via a shf channel, the dynamic spectral characteristics of the channel present at a moment t , equal to the pulse duration t_u , should be used. This means that it is sufficient to satisfy the conditions of constant modulus of the complex transmission factor $K(\omega)$ in the wave-spectrum band and the linear variation of the argument $\varphi(\omega)$ with a frequency $K(\omega) = \text{const}$. $\varphi(\omega) = -t_3\omega$ only within a limited stretch t_3, t, t_u , where t_3 is the wave delay time. With $t > t_3 + t_u$, the spectral characteristic can

L 4015-66

ACCESSION NR: AR5008937

be rather arbitrary. The above approach considerably widens the class of systems suitable for undistorted transmission of pulses, and in some cases, this approach permits abandoning the line matching. It is sufficient that the so-called fellow stream of reflected pulses does not superpose upon the fundamental wave. The relative value of the first and second fellow streams, for active inhomogeneities, is: $\alpha_1 = Qp^2$, $\alpha_2 = \left[Q + \frac{(Q+1)(Q+2)}{2}\right]p^2 - (Q+1)p^2$, where Q is the number of sections in the transmission system, and p is the real reflection factor. The channels are presented as systems with a delayed feedback caused by the reflection from inhomogeneities. A length of unmatched line, a step transformer, a TW amplifier, and a support insulator are considered as examples. It is demonstrated that a great number of insulators narrows the channel transmission band, which makes such insulators unacceptable for the nanosecond pulses. Bibl. 12, figs. 6.

SUB CODE: EC

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L 28023-56 EWT(1)/EWA(b)

SOURCE CODE: UR/0142/65/008/003/0386/0388

ACC NR: AP6018167

AUTHOR: Horuzin, I. A. (Candidate of technical sciences; Docent)

ORG: none

TITLE: All-union symposium of nanosecond pulse techniques and applications in physical investigations

SOURCE: IVUZ, Radiotekhnika, v. 8, no. 3, 1965, 386-388

TOPIC TAGS: waveguide propagation, waveguide, ferrite, nanosecond pulse, electronics conference, pulse generator, electromagnetic wave, multivibrator

ABSTRACT: The All-Union Symposium on Nanosecond Pulse Techniques and Applications in Physical Investigations met 25-27 March 1965 in Gor'kiy. It was organized by the Scientific Research Radio-Physics Institute of the Gor'kiy State University imeni N. I. Lobachevskiy and the Gor'kiy Administration of the Scientific-Technical Society of Radio Engineering and Electric Communications imeni A. S. Popov. Fifty-eight reports were read at the symposium. Topics covered included: the problem of fast action in nanosecond pulse equipment; propagation of electromagnetic waves in ferrite-filled waveguides; shock waves in transmission lines; parametric pulse signal converters; damping in powerful pulse generators; shock waves for ferrite parameter measurements; autooscillation; tunnel diode multivibrator equipment; a delayed feedback pulse generator; increasing pulse transmission line bandwidth; increasing stroboscopic oscilloscope bandwidth; measuring short-pulse parameters; construction and design of nanosecond pulse equipment; high-speed optical processes; laser production of nanosecond pulses; nanosecond pulse techniques applied to atomic spectroscopy; formation of high-voltage nanosecond pulses. [JPRS]

SUB CODE: 09.20 / SUBM DATE: 03 May 65

UDC: 063.3:537+539.2

58

B

L36016-65 EWT(1)/EEC(k)-2/T/EEC(b)-2/EWA(h) Pm-4/Pz-6/Peb/Pj-4 IJF(c)
ACCESSION NR: AP5002916 S/0109/65/010/001/0193/0195

AUTHOR: Morugin, I. A.

TITLE: Analysis of a tunnel-diode-resistor circuit

SOURCE: Radiotekhnika i elektronika, v. 10, no. 1, 1965, 193-195

TOPIC TAGS: tunnel diode, tunnel diode circuit

ABSTRACT: Tunnel-diode-resistor circuits intended for amplification and shaping pulses are analyzed by G. Crisson's method (BSTJ, 1931, 9, 485) in which the negative resistance is replaced by a circuit with a positive feedback. The resulting equivalent circuit correctly represents the operation of the tunnel diode possessing an internal positive feedback (the falling-off portion of its current-voltage characteristic) and turns a two-pole network into a quadripole. The tunnel-diode characteristic is linearized, and the processes transpiring in the diode are described by a linear integral equation. Depending on the choice of

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ACCESSION NR: AP5002916

theoretical parameters, the equivalent circuit can operate as a regenerated amplifier or as a single-shot trigger. Orig. art. has: 3 figures and 5 formulas.

ASSOCIATION: none

SUBMITTED: 24Jan64 ENCL: 00 SUB CODE: EC

NO REF SOV: 000 OTHER: 001

GULYAKIN, I.V., prof., doktor biologicheskikh nauk; GUKOVA, N.M., kandidat, kand. biolog. nauk; SINYASHKINA, E.I., aspirant; MGRUGINA, M.F., aspirant

Crop yields and nitrogen accumulation on forage beans as related to the conditions of nutrition. Izv. TSKhA no.3:117-125 '54.
(MIRA 17:11)

1. Kafedra agrokhimii i biokhimii Moskovskoy sel'skokhozyaystvennoy akademii imeni Timiryazeva.

RUMANIA/Cultivated Plants - Fruits. Berries.

M

Abs Jour : Ref Zhur Biol., No 12, 1958, 5370

Author : Moruju, Ch.

Inst :

Title : High-Yield Apple Tree Varieties.

Ori. Pub : Gradina, via si livanda, 1957, 6, № 3, 44-52

Abstract : This article gives the economic-biological characteristics of the apple tree varieties occurring in RMR the Rumanian People's Republic. From local varieties, the following are recommended for Targoviste region: Petul and Red Kretsesk from Bryaz; from the imported varieties the following are recommended: Bowman Ramet, Boykin, Golden Parnen and Mashanskiy. The latter is resistant to black canker, monilia and the pests. -- P.Kh. Kiskin

Card 1/1

- 115 -

VYGODSKAYA-BELEN'KAYA, S.L.; MORUNOVA, Z.S.

A new drug, validol in tablet form. Apt.delo 6 no.6:51-53 N-D '57.
(MIRA 10:12)

1. Iz Galeno-farmatsevticheskoy fabriki (dir. M.A.Vaks) Moskovskogo
gorodskogo otdeleniya Glavnogo aptechnogo upravleniya RSFSR.
(MENTHOL)

GORLOVA, T. N.; MORUNOVA, Z. S.; VYGODSKAYA-BILENKAYA, S. L.

Rapid method for determining moisture. Apt.delo 7 no.1:35-38 Ja-F '58.
(MIRA 11:3)

1. Iz eksperimental'noy laboratorii Galenovo-farmatsevticheskoy
fabriki Moskovskogo gorodskogo aptechnogo upravleniya.
(DRUGS—ADULTERATION AND ANALYSIS)
(MOISTURE--MEASUREMENT)

YEREMEYEVA, V.S.; POROKOVA, L.N.; PETROVA, R.I.; MORUNOVA, Z.S.; SIVITSKAYA,
O.K.

Use of an internal indicator in the nitritometric titration of drugs.
Apt. delo 9 no.3:60-63 My-Je '60. (MIRA 14:3)
(DRUGS) (COLORIMETRY)
(INDICATORS AND TEST-PAPERS)

REVENOK, G.A., gornyy inzh.; MOHUSAN, R.S., gornyy inzh.

How we improved underground mine haulage operations. Ugol'
Ukr. 3 no.12:30-31 D '59. (MIRA 13:4)
(Donets Basin--Mine haulage)

MARUSCIAC, D.; POP, V.; MORUSCA, I.; ROSSI, T.; ALIAS, V.

Study on some methods of soil carbonization in the Cluj region
in view of their utilization in agrotechnical construction.
Bul stiint polit Cluj 6:171-186 '63.

RYNIN, A. V.; MORUSHKIN, G. V., Engrs.

Wood Finishing

"Nitromastic" for finishing mas-produced furniture, Der. i lesekhim. prom. 1 No. 9, 1952

Monthly List of Russian Accessions, Library of Congress, June 1950, Uncl.

MORUSHKIN, G.V., inzhener.

Using a thermoelectric thermometer to measure the temperature of the glue
joint. Der.i lesokhim.prom. 2 no.11:21-22 N '53. (MLRA 6:11)

1. Leningradskaya mebel'naya fabrika imeni Khalturina.
(Thermocouples) (Veneers and veneering)

MORUSHKIN, G.V., inzhener.

Experience in finishing furniture with decorative veneer and grained paper. Der. i lesokhim. prom. 3 no.12:24 D '54. (MLRA 8:1)

1. Leningradskaya mebel'naya fabrika im. Khalturina.
(Veneers and veneering)

MORUSHKIN, G.V., inzhener.

Veneered furniture with veneers cut from curly birch. Der.prom.
4 no.12:22-24 D '55. (MLRA 9:3)

1. Leningradskaya mebel'naya fabrika imeni Khal'turina.
(Veneers and veneering) (Furniture industry)

MORUSHKIN, O.V., inzhener.

The making of resin glue for furniture veneering. Der.prom.5
no.7:19-20 Jl '56. (MIRA 9:9)

1.Leningradskaya nebel'naya fabrika imeni Khalturina.
(Glue) (Veneers and veneering)

~~REINHOLD, G.V.~~

Lacquer for finishing curly birch venedered furniture. Der.prom. 6
no.7:27 Jl '57. (REINHOLD)
(Lacquers and lacquering) (Furniture)

MORUSHKIN, G.V.

Reducing the content of free formaldehyde in MFS-1 and M-70
carbamide resin adhesives. Der.prom. 6 no.8:22 Ag '57. (MIRA 10:11)

1. Leningradskaya mebel'naya fabrika im. Khalturina.
(Adhesives) (Formaldehyde)

MORUSHKIN, G.V., inzh.

Emulsion lubricants for bearings used in drying chamber ventilation
shafts. Der. prom. 7 no.4:23-24 Ap '58. (MIRA 11:5)

1. Leningradskaya mebel'naya fabrika im. Khalturina.
(Lubrication and lubricants)

MORUSHKIN, G.V.

Staining beech wood by synthetic stains. Der.orom. 7 no. 6:20-
21 Je '58. (MIRA 11:8)

1. Leningradskaya mebel'naya fabrika im. Khalturina.
(Beech)
(Stains and staining)

KORUSHKIN, G.V., inzh.

Making furniture of hardboards. Der.prom. 7 no.11:23-24 8 '58.
(MIA 11:11)

1. Leningradskaya mebel'naya fabrika imeni Khalturina.
(Hardboard) (Furniture industry)

MORUSHKIN, G.V., inzh.

Considering operating conditions in gluing wood using high-frequency current heating. Der.prom. 8 no.2:19-20 P '59.
(MIREA 12:2)

(Gluing)

MORUSHKIN, G.V.

Component proportioning in the preparation of M-70 resin. Ber.
prom. 9 no.7:19-20 Jl '60. (MIRA 13:7)

1. Leningradskaya mebel'naya fabrika im. Khalturina.
(Resins, Synthetic)

IVANOV, Yevgeniy Sergeyevich; MORUSHKIN, Georgiy Vasil'yevich;
SAATCHAN, Sergey Aleksandrovich; GOLUREVA, T.M., red.;
TELYASHOV, R.Kh., red.izd-va; CVIHTS, V.L., tekhn.red.

[Mechanization experiments at the Khalturina Furniture
Factory] Opyt mekhanizatsii na mebel'noi fabrike im.
Khalturina. Leningrad, 1963. 15 p. (Leningradskii dom
nauchno-tehnicheskoi propagandy. Obmen peredovym
opytom. Seria: Derevoobrabatyvaiushchaia promyshlen-
nost', no.4) (MIRA 16:10)
(Leningrad--Furniture industry--Equipment and supplies)

VLASHEIN, Georgiy Vasil'yevich; KULYAREVSKAYA, G.A., red.

{Synthetic firms in the manufacture of furniture, art-
stekhniko-penki v prizyvnoye materialy. Leningrad,
1964. 111}. (Leningradskii nauchno-tehnicheskii
proekt). 'Zvezda' (redakcija). Seriya: Derev -
obrabatyval'schaya promst. (n.2)
(LNUA 1964)

IOFFE, Anatoliy Mikhaylovich; MORUTOVA, A., red.

[Notes of a doctor-hypnotist] Zapiski vracha-gipnotizera.
Kemerovo, Kemerovskoe knizhnoe izd-vo, 1965. 60 p.
(MIRA 18:10)

MORUZI, C.

MORUZI, C. New contributions to the study of plant lichenology in Rumania.
p. 803. Vol 6, no. 6, June 1956. COMUNICARILF. Bucuresti, Rumania.

SOURCE: East European Accessions List (EEAL) Vol. 6, No. 4--April 1957

MORUZI, H.

RUMANIA / Microbiology. General Problems.

F-1

Abs Jour: Ref Zhur-Biol., 1958, No 17, 76550.

Author : Moruzi, C.

Inst : Not given.

Title : The Nature, Role and Significance of Microorganisms.

Orig Pub: Natura (Romin.), 1957, 9, No 3, 67-79.

Abstract: No abstract.

Card 1/1

MORUZI, C.

Ana Pauca and Stefana Roman's Flora alpina si de munte (Alpine and Mountain Flora); a book review. Rev biol 5 no.4:394-395 '60.
(EEAI 10:9)

(Pauca, Ana) (Roman, Stefana) (Alpine flora)

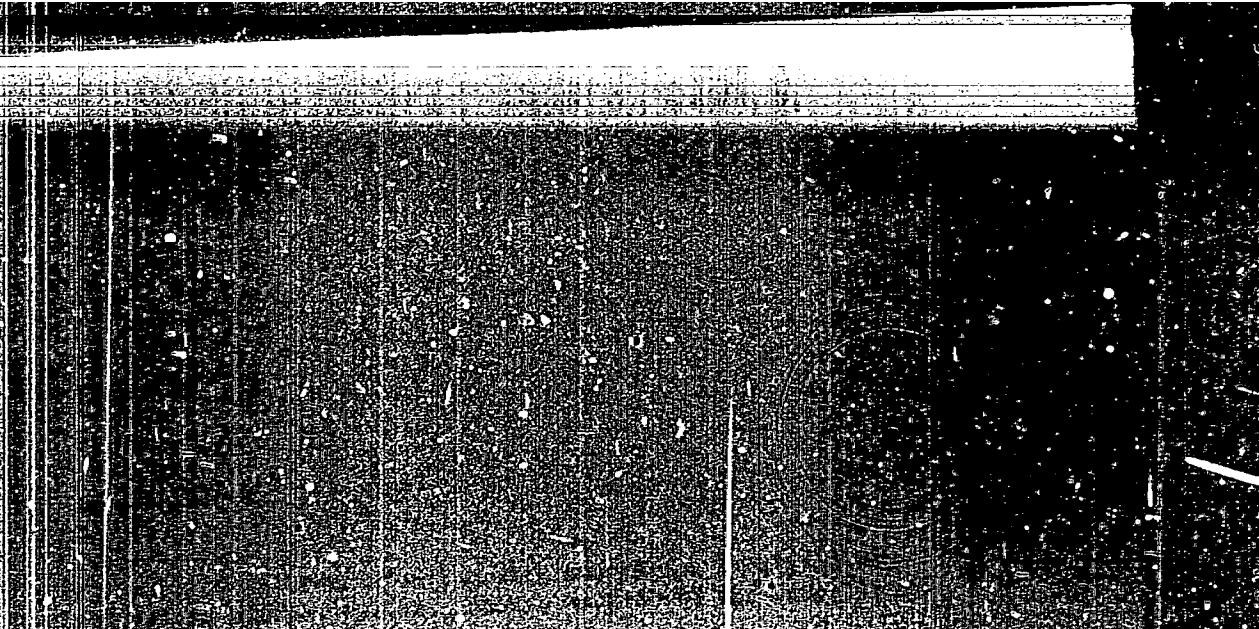
MORUZI, C., dr.

Ana Pauca and Stefana Roman's Flora alpina si montana (Alpine and
Mountain Flora); a book review. Studii cerc biol veget 12 no.3:
365 '60. (EEAI 10:5)

(Pauca, Ana) (Roman, Stefana) (Alpine flora)

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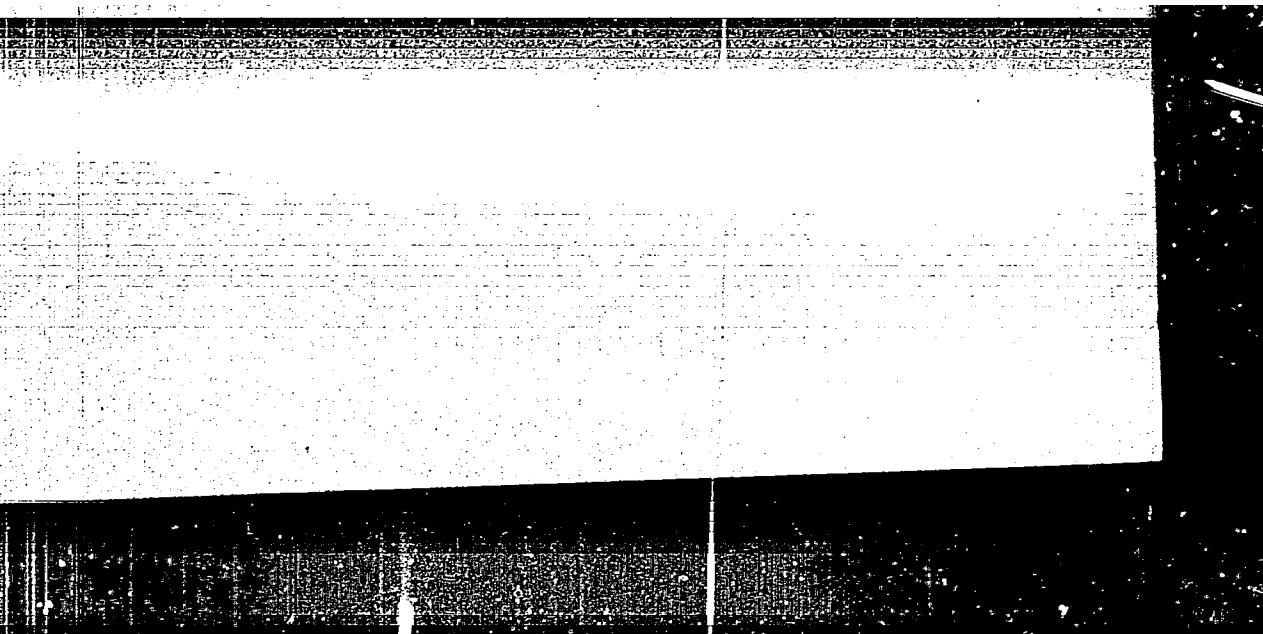


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MORUZZI, H

USSR / Human and Animal Physiology. The Nervous System. T

Abs Jour: Ref Zhur-Biol., No 9, 1958, 41719.

Author : Moruzzi, G.

Inst : Not Given.

Title : Recent Studies on the Cerebellar Regulation of Postural Extensor Tonus.

Orig Pub: V sb.: Probl. sovrem. fiziol. nervn. i myshechn. sistem. (Problems of Contemporary Physiology of the Neuromuscular System), Tbilisi, AN GruzSSR, 1956, 195-212.

Abstract: Revue. Stimulation of the anterior part of the fastigial nucleus (FN) in cats causes disappearance of the decerebration rigidity of the ipsilateral extremities, stimulation of the posterior

Card 1/4

USSR / Human and Animal Physiology. The Nervous System. T

Abs Jour: Ref Zhur-Biol., No 9, 1958, 41719.

Abstract: part of FN - of the contralateral extremities. The removal of the contralateral facilitating action of FN on the postural extensor tonus is associated with the fading of impulses passing through the Russell tracts to the medulla oblongata. Bilateral stimulation of FN does not remove decerebration rigidity. Extensor rigidity of the contralateral extremities can be reestablished by deafferentiation and novocaine block of the ipsilateral extremities and section of the ipsilateral vestibular nerve, which is explained by the removal of inhibitive actions on the extensor tonus emanating from the receptors of the ipsilateral extensors and from the labyrinth. In the intact animal, destruction of the anterior part of the FN causes a decrease of the static extensor tonus of the

Card 2/4

122

USSR / Human and Animal Physiology. The Nervous System. T

Abs Jour: Ref Zhur-Biol., No 9, 1958, 41719.

Abstract: Chambers, holding opposite views are criticized.
Bibliogr. 69 titles. -- R. M. Meshcherskiy.

Card 4/4

123

MURUZ /¹⁴
USSR // Human and Animal Physiology. The Nervous System. T

Abs Jour: Ref Zhur-Biol., No 9, 1958, 41703.

Author Magueti, G.

Inst : Not Given.

Title : An Electro-Physiological Analysis of the Brain
Stem Reticular Formation.

Orig Pub: Zh. vyssh. nervn. deyat-sti, 1957, 7, No 4,
479-493.

Abstract: Survey. Data are given on the localization of the structures of the reticular formation (RF) from which ascending and descending pathways originate. In order to illustrate the anatomical and physiological significance of the different nervous cells of the RF, electro-physiological data were obtained with microelectrode leads from the cells of the RF under condition of stimulation with

Card 1/2

116

MERUZI, Z.A.

Prospects for the development of pond fish culture in
the Altai Territory. Trudy sov. Ikht. kom. no.14:144-146
'62. (MIRA 15:12)

1. Altayskiy nauchno-issledovatel'skiy institut sel'skogo
khozyaystva.
(Altai Territory—Fish culture)

MORUZOV, V.K.

25832

Svobodnye mezhsortovye skreshchivaniay v selektsii podsolnechnika. Selektsiya i
semenovodstvo, 1949, No. 8. s. 15-22

SO: Letopis' No. 34

MORVA, Laszlo, dr.

Torsion of the cecum. Magy. sebeszet 14 no.6:376-379 D '61.

1. A Szentesi Megyei Korhaz sebeszeti osztalya.

(CECUM dis)

MORVA, Laszlo, dr.

Therapy of acute stomach perforation. Orv. hetil. 104 no.12:548-550
24 Mr '63.

1. Szentcsi Megyei Korhaz, Sebeszet.
(GASTRECTOMY) (STOMACH NEOPLASMS) (SUTURE TECHNICS)
 (PEPTIC ULCER PERFORATION)

MORVA, M.

"Technical management of the drainage of shafts IX and XII in the mines of Doro_t with mammoth pumps." Banyaszati Lapok, Budapest, Vol. 9, No. 2, Feb. 1954, p. 77.

SO: Eastern European Accessions List, Vol. 3, No. 11, Nov. 1954, I.U.

SEBESTYEN, Karoly, dr.; MORVAI, Laszlo; RARAS, Gyula; KARAS, Gyulane

Tests on the quantitative appraisal of water prospecting borings.
Geofiz kozl 13 no.1:123-134 '64.

1. Editorial Poard Member, "Geofizikai Kozlemenyek" (for
Sebestyen).

SEREDYKIN, Karoly, dr., ANDREJ V. Lazecky, M.RVAI, Ing.

Application of deep drilling geophysics in borehole monitoring.
Geofizika 19 no.3, 362-369 - 1981.

1. Editorial Board Member, "Geofizika Kozlemenyek."

MORVAKOZI, Laszlo

Some problems relating to the development of production and supplies
in the building materials industry. Epites szemle 6 no.9:282-288 '62.

1. Kozponti Nepi Ellenorzó Bizottság gazdasági szakértője.

MORVAGY, GY.

"A study trip in Berlin (German Democratic Republic). p. 24

KEP ES HANGTECHNIKA (Optikai es Kinotechnikai Tudomanyos Egyesulet)
Budapest, Hungary, Vol. 5, No. 1. Feb. 1959

Monthly List of East European Accessions (EEAI) LC, Vol. 8, No. 6, June 1959
Uncl.

41754
S/194/62/000/007/148/160
D413/D308

7-7-230'

AUTHOR: Morvai, István

TITLE: A transistorized power amplifier with low distortion

PERIODICAL: Referativnyy zhurnal. Avtomatika i radioelektronika,
no. 7, 1962, abstract 7-7-230 t (Hung. pat., cl. 21 a⁴
1-13, no. 147782, Nov. 30, 1960)

TEXT: A single-cycle power amplifier circuit is described, containing two transistors, which are connected in series as regards DC and in a common-emitter configuration as regards AC. The emitter of the first transistor is grounded. The excitation is applied to the base of the second transistor, and the output signal is taken from the collector of the first transistor and the emitter of the second transistor, which are connected to one another. Two feedback signals are fed to the base of the first transistor: one from the collector of the second transistor through a capacitor, and the other from the amplifier output through a series RC circuit. (Egyesült Izzólámpa és Villamossági RT.). [Abstracter's note: Complete translation.]

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MORVAI, Istvan

Reflex super set with Hungarian-made transistors. Radiotechnika M. no. L
98-101 Ap '60.

APPROVED FOR RELEASE: 07/12/2001

CIA-RDP86-00513R001135310012-4"

MORVAI, Istvan

Remark about the article the "Control of transistor amplifiers."
Radiotekhnika 13 no.2:46-47 F '63.

SZILAGYI, Elemer.okl.mernok; V."AGY, Imre,dr.; SZIVAK, Attila; FEKETE, Karoly;
LACZAI SZABO, Tito; CSEMAK Bela; DULASZKY, "andor; MORVAL, Vilmos,
okl.mernok; BELYOVICH, Sandor; DEFESI, Odon; MADAS, Jozsef; GOCZ,
Bela; VARGAI, Tivadar; HETENYI, Endre

Industrial water supply. Pecsi musz szeml 6 no.4 supplement:5-14 O-D '61.

1. Vizgazdalkodasi Tudomanyos Kutato Intezet igazgatohelyetese
(for V.Nagy).
2. Melyepitesi Tervezo Vallalat (for Saivak).
3. Deldunantuli Vizugyi Igazgatosag (for Fekete).
4. "ehezipari
Miniszterium Villamosenergiaipari Igazgatosag (for Laczai Szabo).
5. Vizgazdalkodasi Tudomanyos Kutato Intezet (for Csermak).
6. Pecsi Viz- es Ceatornamuvek (for Dulanszky).
7. FTV V.Mernokgeologial
Osztaly (for Bellosevich).
8. Epitesugyi Miniszterium Pecsi Tervezo
Vallalat Ybl-dijas varosrendezo epiteszmernooke (for Denesi).
9. Pecsi
Szentroszt (for Madas).
10. Pecs mj.varos Tanacsra Vegrehajto Bizottsaga
elnokhelyetese (for Gocz).
11. Pecs mj.varosi KOJALL (for Varnai).
12. Orszagos Vizugyi Foigazgatosag fomernooke (for Hetenyi)

MORVAY, Anna

Required soil temperature for cucumber growing in green-houses.
Orsz meteor int besz tud kut 26:325-328 '62(publ.'63).

MORVAKOZI, Laszlo, gazdasagi szakerto

Experiences in the construction of dwelling houses. Eپites szemle
8 no.3:89-94 '64.

1. Central People's Control Committee, Budapest.

MORVAL, L; KESKENY, F.

Fur industry in the Soviet Union, p. 123.

BOR ES CIPOTECHNIKA. (Boripari Tudomanyos Egyesulet mint a Magyar Tudomanyos Egyesuletek Szovetsege Tagegyeslete) Budapest, Hungary. Vol. 9, no. 4, Aug. 1959.

Monthly List of East Europe Accessions (EEAI) LC, Vol. 8, no. 11, November 1959.
Uncl.

MORVAY, Anna

Agrometeorological questions relating to the cucumber growing
in plant houses. Orsz meteor int bess tud kut 25:278-281
'61 (publ.'62).

MORVAY, Anna; VARGA HAZOMITS, Zoltan

Daily course of plant temperature in a Holland bed. Idojaras 66
no.4:248-249 J1-Ag '62.

MORVAY, GYORGY

B. T. R.
June 1954
Mechanic Engineering

OMG: J. G.
8282° Development of Electrical Equipment for Machine
Tools. (Hungarian.) György Morvay, Elektrotechnik, v. 41,
no. 2, Feb. 1, 1954, p. 33-40.

Starting control, changing speed, stopping the motor, possibilities and limits for use of motors with stepless speed control. Diagrams, graphs.

3-30-
JG

POZSONYI, Gabor, dr.; MORVAY, Gyorgy

A Hungarian study trip to Berlin (German Democratic Republic).
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1. "Kep- es Hangtechnika" szerkeszto bizottsagi tagjai.

